INDEX

ARTICLES

ARROW, KENNETH J.: *Statistics and Economic Policy* 523
BANDEEN, ROBERT A.: *Automobile Consumption, 1940–1950* 239
BASMANN, R. L.: *A Generalized Classical Method of Linear Estimation of Coefficients in a Structural Equation* 77
———: *See* KOOPMANS 53
BERGER, W. J., AND EDWARD SAIBEL: *Power Series Inversion of the Leontief Matrix* .. 154
BLAU, JULIAN H.: *The Existence of Social Welfare Functions* 302
BREMS, HANS: *Employment and Money Wages under Balanced Foreign Trade* 314
BRIGGS, F. E. A.: *On Problems of Estimation in Leontief Models* 444
CHARNES, A., AND W. W. COOPER: *Nonlinear Power of Adjacent Extreme Point Methods in Linear Programming* 132
COOPER, W. W.: *See* CHARNES 132
FUJINO, S.: *A Theory of Economic Fluctuations in a Capitalist Economy—Economics of Cycles and Growth, by Michio Morishima (A Review Article)* 175
GOLLNICK, H.: *Demand Structure and Inventories on the Butter Market* 393
GRILICHES, ZVI: *Hybrid Corn: An Exploration in the Economics of Technological Change* 501
HEADY, EARL O.: *An Econometric Investigation of the Technology of Agricultural Production Functions* 249
HOUTHAKKER, HENDRIK S.: *An International Comparison of Household Expenditure Patterns, Commemorating the Centenary of Engel's Law* 532
KOOPMANS, TJALLING C., AND MARTIN BECKMANN: *Assignment Problems and the Location of Economic Activities* 53
MANNE, ALAN S.: *See* MARKOWITZ 84
MARKOWITZ, HARRY M., AND ALAN S. MANNE: *On the Solution of Discrete Programming Problems* 84
MCKENZIE, LIONEL W.: *An Elementary Analysis of the Leontief System* 456
MILLS, EDWIN S.: *The Theory of Inventory Decisions* 222
MURTI, V. N., AND V. K. SASTRY: *Production Functions for Indian Industry* 205
REITER, STANLEY: *A Note on Surrogates for Uncertain Decision Problems* 339
ROSENBLATT, DAVID: *On Linear Models and the Graphs of Minkowski-Leontief Matrices* 325
ROWE, D. A.: *See* STONE 423
SAIBEL, EDWARD: *See* BERGER 154
SARGAN, J. D.: *The Distribution of Wealth* 568
SMITH, VERNON L.: *Engineering Data and Statistical Techniques in the Analysis of Production and Technological Change: Fuel Requirements in the Trucking Industry* 281
SMITHIES, ARTHUR: *Economic Fluctuations and Growth* 1
STONE, RICHARD, AND D. A. ROWE: *The Market Demand for Durable Goods* 423
STROTZ, ROBERT H.: *The Empirical Implications of a Utility Tree* 269
STUVEL, G.: *A New Index Number Formula* 123
THEIL, HENRI: *Linear Aggregation in Input-Output Analysis* 111
———: *A Note on Certainty Equivalence in Dynamic Planning* 346
UZAWA, H.: *Note on the Rational Selection of Decision Functions* 166

WHITTLE, P.: *See* WOLD 591
WOLD, H. O. A., AND P. WHITTLE: *A Model Explaining the Pareto Law of Wealth Distribution* 591
ZELLNER, ARNOLD: *The Short-Run Consumption Function* 552

BOOK REVIEWS

ABEL-SMITH, BRIAN, AND R. M. TITMUSS: *The Cost of the National Health Service In England and Wales*, by Jerome Rothenberg 372
ABBOTT, LAWRENCE: *Quality and Competitoin: An Essay in Economic Theory*, by H. S. Houthakker 382
ACADEMY OF SCIENCES OF THE USSR, ECONOMIC INSTITUTE: *Politicheska'a ekonomi'a: Uchebnik (Political Economy: Textbook)*, by Eberhard Fels 183
ÅKERMAN, JOHAN: *Structures at cycles économiques*, by Henri Guitton 373
BARGER, HAROLD: *Distribution's Place in the American Economy Since 1869*, by Robert Ferber and Derek Knee 374, 375
BAUCHET, PIERRE: *Les tableaux économiques: analyse de la région Lorraine*, by Otto Eckstein 611
BINET, F. E., R. T. LESLIS, S. WEINER, AND R. L. ANDERSON: *Analysis of Confounded Factorial Designs in Single Replications*, by O. Kempthorne 191
BLUMEN, I., M. KOGAN, AND P. J. MCCARTHY: *The Industrial Mobility of Labor as a Probability Process*, by Thomas A. Mahoney 379
BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM: *Flow of Funds in the United States 1939–1953*, by Gerhard Colm 180
BRESCIANI-TURRONI, C.: *Corso di Economia Politica (Volume Secundo): Problem Speziali*, by Louise Sommer 494
CARNAP, R.: *Einführung in die symbolische Logik mit besonderer Berücksichtigung ihrer Anwendungen*, by Eberhard Fels 385
FELLNER, WILLIAM: *Trends and Cycles in Economic Activity: An Introduction to Problems of Economic Growth*, by Lester G. Telser 615
FRÉCHET, MAURICE: *Les mathématiques et lè concret*, by Leonard J. Savage 498
GALENSON, WALTER: *Labor Productivity in Soviet and American Industry*, by Maurice Dobb 495
GNEDENKO, B. V.: *Kurs teorii vero'atnostei (A Course in the Theory of Probability)*, by Eberhard Fels 186
GOLDSMITH, RAYMOND W., DOROTHY S. BRADY, AND HORST MENDERSHAUSEN: *A Study of Saving in the U. S., Vol. III*, by L. R. Klein 370
HAMBERG, D.: *Economic Growth and Instability*, by Robert Solow 612
HEADY, H. O., G. L. JOHNSON, AND L. S. HARDIN, EDS.: *Resource Productivity, Returns to Scale, and Farm Size*, by F. V. Waugh 384
HECKSCHER, ELI F.: *Mercantilism*, by Joseph J. Spengler 497
International Bibliography of Economics, Vols. I and II, by Otto H. Ehrlich 383
JAQUIN, FRANÇOIS: *Les cadres de l'industrie et du commerce en France*, by Walter Froehlich 192
KENDALL, M. G.: *Rank Correlation Methods*, by Wassily Hoeffding 181
KLEIN, L. R., AND A. S. GOLDBERGER: *An Econometric Model of the U. S., 1929–1952*, by Colin Clark 617
LEWIS, W. ARTHUR: *The Theory of Economic Growth*, by K. K. Kurihara 189
LINNIK, YU. V., ED.: *A(ndrei) A(ndreevich) Markov, Isbrannye trudy: teoria chisel, teoria vero'atnostei (Markov's Selected Works on the Theory of Numbers and the Theory of Probability)*, by Eberhard Fels 185

LYDALL, H. F.: *British Incomes and Savings*, by Raymond W. Goldsmith 377
MA, R. A., AND EDWARD F. SZCZEPANIK: *The National Income of Hong Kong, 1947–50*, by Phyllis Deane 381
MARCHAL, ANDRÉ: *Méthode scientifique et science économique, Vols. I and II*, by Hugo Hegeland 616
MILLER, HERMAN P.: *Income of the American People*, by Richard Ruggles 187
MORTON, J. E.: *Urban Mortgage Lending*, by Ben B. Sutton 386
NAKAYAMA, ICHIRO, ED.: *Encyclopedia of Economics*, by Hiroshi Takeda 388
PRAIS, S. J., AND H. S. HOUTHAKKER: *The Analysis of Family Budgets*, by James Tobin 493
PREDETTI, ADALBERTO: *La "Cowles Commission" ed i modelli econometrici*, by R. S. Eckhaus 188
RASMUSSEN, ARNE: *Pristeori Eller Parameterteori (Price Theory or Parameter Theory)*, by Hans Brems 498
REYNOLDS, LLOYD G., AND CYNTHIA H. TAFT: *The Evolution of Wage Structure*, by Harold W. Davey 613
RILEY, VERA, AND ROBERT LORING ALLEN: *Interindustry Economic Studies: A Comprehensive Bibliography on Interindustry Research*, by R. N. Grosse 191
ROLETTO, GIORGIO: *La Construzione Economica Sovietica; Formazionse-Struttura Tendenze*, by Michele De Benedictus 387
ROY, R., ED.: *Cahiers du séminaire d'économétrie, No. 3. Les modèles économétriques*, by J. C. Antoine 614
SCHNEIDER, E.: *Einführung in die Wirtschaftstheorie*, by Jürg Niehans 491
SCHOEFFLER, SIDNEY: *The Failures of Economics: A Diagnostic Study*, by Gregor Sebba 193
SHACKLE, G. L. S.: *Uncertainty in Economics and Other Reflections*, by W. Krelle 618
SHUBIK, MARTIN, ED.: *Readings in Game Theory and Political Behavior*, by Thomas Marschak 376
VAN WAASDIJK, T.: *Hire Purchase Credit in South Africa*, by Clark Warburton 620

REVIEWERS

Antoine, J. C., 614
Brems, H., 498
Clark, C., 617
Colm, G., 180
Davey, H. W., 613
Deane, P., 381
De Benedictus, M., 387
Dobb, M., 495
Eckhaus, R. S., 188
Eckstein, O., 611
Ehrlich, O. H., 383
Fels, E., 183, 185, 186, 385
Ferber, R., 374
Froehlich, W., 192
Goldsmith, R. W., 377
Grosse, R. N., 191
Guitton, H., 373
Hegeland, H., 616
Hoeffding, W., 181
Houthakker, H. S., 382
Kempthorne, O., 191
Klein, L. R., 370
Knee, D., 375
Krelle, W., 618
Kurihara, K. K., 189
Mahoney, T. A., 379
Marschak, T., 376
Niehans, J., 491
Rothenberg, J., 372
Ruggles, R., 187
Savage, L. J., 498
Sebba, G., 193
Solow, R., 612
Sommer, L., 494
Spengler, J. J., 497
Sutton, B. B., 386
Takeda, H., 388
Telser, L. G., 615
Tobin, J., 493
Warburton, C., 620
Waugh, F. V., 384

ABSTRACTS OF PAPERS PRESENTED AT MEETINGS

Items on pages 350–357 were presented at the Seattle meeting, August 23–24, 1956; those on pages 358–369, at the Detroit meeting, September 7–10, 1956; those on pages 463–490, at the Aix-en-Provence meeting, August 30–September 1, 1956; those on pages 596–610, at the Cleveland meeting, December 26–28, 1956. Papers which were reported only by title are not indexed here.

ABRAMS, ISRAEL J.: *A Note on the Optimal Character of the (s, S) Policy in the Inventory Problem* 351
ADELMAN, IRMA, AND ORLANDO LOBO: *General Credit Controls in a Growing Economy* 355
ALCAIDE, A.: *Utilité et applications des nombres-indices mensuels du mouvement annuel de la production* 464
ALLEN, R. G. D.: *Interdependent Dynamic Systems: Some Statistical Problems* 466
ALLEN, S. G., AND G. J. FEENEY: *Ordering Policy for Poisson Determined Supply and Demand* 351
ANDO, ALBERT K.: *see* SIMON
BARNA, T.: *Some Econometric Aspects of Capital as a Factor of Production* 477
BARNARD, C. S.: *see* SMITH
BECKMANN, MARTIN J.: *Duopoly in Two Markets—A Game Model* 354
BRECKNER, NORMAN V.: *Hypothesis and Tests of the Effect of Liquidity on Investment* 356
BURSTEIN, MEYER: *The Demand for Refrigerators and Home Freezers in the United States* 604
BURTLE, J.: *The Role of Demand in Economic Development* 487
CHENERY, HOLLIS B., AND TSUNEHIKO WATANABE: *International Comparisons of the Structure of Production* 598
CHIPMAN, JOHN S.: *Returns to Scale in the Railroad Industry: A Reinterpretation of Klein's Data* 607
DE HAVEN, JAMES C., AND JACK HIRSHLEIFER: *Feather River Water for Southern California* 598
DE JANOSI, PETER E.: *Factors Influencing the Demand for New Automobiles: A Cross-Section Analysis* 364
FAIVELEY, G.: *L'équipment dans l'analyse des échanges interindustriels: à la recherche de l'optimum économique* 482
FEENEY, G. J.: *see* ALLEN
FISHER, LAWRENCE: *Determinants of Risk Premiums on Corporate Bonds* 366
FISHER, WALTER D.: *Economic Aggregation as a Minimum Distance Problem* 363
FOSSATI, E.: *Communication pour célébrer le cinquantenaire du* **Manuale di economia politica** *de Vilfredo Pareto* 476
GERRA, MARTIN J.: *An Eleven-Equation Model of the Egg Economy* 610
GIBRAT, R.: *Le problème général des plans de production d'énergie électrique* 468
GIGUET, R.: *Les programmes d'équipement électrique en conjoncture aléatoire* 471
GILBERT, FRANKLEE: *see* PFOUTS
GORMAN, W. M.: *A Mathematical Theory of Saving* 358
GROSS, OLIVER: *see* JOHNSON
GRUNFELD, YEHUDA: *Do Profits Explain Investment?* 609
HENDERSON, JOHN: *Money and Investment Theory of Cycles* 606
HIRSHLEIFER, JACK: *see* DE HAVEN
HURWICZ, LEONID: *Resource Allocation As a Dynamic Process* 352
———: *External Diseconomies and the Possibility of Decentralization* 599
JOHNSON, SELMER M., AND OLIVER GROSS: *Optimum Sequential Search Problems* 352
KRAVIS, IRVING B.: *Expenditure-Income Relationships for Consumers' Durable Goods and Problems in Their Derivation* 363
KUH, EDWIN: *A Time Series Approach to Cross-Section Investment Behavior* 609
LENSCHOW, G.: *La tarification ad valorem et la théorie économique* 489

LEVITAN, RICHARD E.: *see* MARCH
LOBO, ORLANDO: *see* ADELMAN
MAILLET, P.: *Aspects théoriques et concrets de l'élaboration d'un plan d'investissement*. 484
MANNE, ALAN S.: Programming of Economic Lot Sizes. 607
MARCH, JAMES D., AND RICHARD E. LEVITAN: *A Set of Necessary, Sufficient, and Independent Conditions for Proportional Representation*. 361
MARSCHAK, THOMAS: *Criteria for Choice Between Centralization and Decentralization*. 353
MCCARTHY, JOHN: *Aggregation in the Leontief Model*. 602
MORGAN, JAMES N.: *Consumer Investment Expenditures*. 602
MORGAN, THEODORE: *The Long-Run Terms of Trade between Agriculture and Manufacturing*. 360
MUELLER, EVA: *Measuring Consumer Attitudes in the Business Cycle: Methodological Problems*. 360
MUTH, RICHARD F.: *The Demand for Non-Farm Housing*. 365
NAHON, G.: *La prévision du rythme des consommations de gaz à partir des variations de température et de certains facteurs économiques*. 486
NATAF, A.: *Influence des investissements sur l'évolution des prix*. 479
PAPANDREOU, ANDREAS G.: *Models, Comparative Statics and Empirical Relevance*. 600
PFOUTS, RALPH W., AND FRANKLEE GILBERT: *Some Measurements of the Elasticity of Occupational Mobility of Labor*. 603
PRAIS, S. J.: *Some Problems in the Econometric Analysis of Company Accounts*. 481
SCARF, HERBERT: *A Min-Max Solution of an Inventory Problem*. 352
SCHIMMLER, H.: *Measurement of Intended and Unintended Inventory Investment*. 488
SHAPLEY, L. S.: *A Duopoly Model with Price Competition*. 354
SHUBIK, MARTIN: *Games of Economic Survival*. 605
SIMON, HERBERT A., AND ALBERT K. ANDO: *Aggregation of Variables in Dynamic Systems*. 602
SMITH, VICTOR E., AND C. S. BARNARD: *A Case Study in Linear Programming for British Agriculture*. 362
STEIN, JEROME L.: *The Predictive Accuracy of the Marginal Productivity Theory of Wages*. 367
TIEBOUT, CHARLES M.: *The Community Income Multiplier: A Case Study*. 367
TINTNER, G.: *Les programmes linéaires stochastiques*. 465
VADNAL, A.: *Le modèle mathématique d'analyse de l'aide économique prêtée de la part d'une région économique développée à une région sous-développée*. 487
VERHULST, M.: *Le concept de "mission"*. 490
WATANABE, TSUEHIKO: *see* CHENERY
WEINTRAUB, ROBERT: *Negro-White Earnings in a Southern Industrial Plant*. 368

MEETINGS

Aix-en-Provence, August 30–September 1, 1956, Report. 463
Atlantic City, September 10–13, 1957, Announcements. 195, 500
Cleveland, December 27–29, 1956, Report. 596
Detroit, September 7–10, 1956, Report. 358
Luxembourg, August 28–30, 1957, Announcement. 390
Philadelphia, December 28–30, 1957, Announcements. 390, 500, 621
Seattle, August 23–24, 1956, Report. 350

MISCELLANEOUS

Erratum. 499

PORTRAITS

PAUL A. SAMUELSON. facing page 1
RENÉ ROY. facing page 393